## **CLAIMS**

1	AnIFD	illumination	cyctem	comprising.
1.	All LED	mummanon	System,	, comprising.

- a) an LED module in which
- 5 a substrate,
  - a heat conducting layer provided on the substrate and made of an insulating material,
  - a conductive layer provided on the heat conducting layer and having a predetermined pattern,
- a light emitting diode chip provided in a predetermined position on the conductive layer,
  - a connector part having a module thermally contacting portion for conveying heat from the heat conducting layer and
    - a power supplying terminal provided in an end portion of said substrate,
- are provided; and

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- b) a socket for supporting said connector part, in which
- a socket thermally contacting portion having a surface contact with said module thermally contacting portion, and
- a terminal connected to the power supplying terminal of said connector part,

  are provided.
  - 2. The LED illumination system according to claim 1, wherein said heat conducting layer is made of diamond, diamond-like carbon or carbon nanotubes.
  - 3. The LED illumination system according to claim 1 or 2, wherein a reflector

for reflecting light from a light emitting diode and releasing heat from the socket to the surrounding air is provided.

- 4. The LED illumination system according to claim 3, wherein the substrate of5 the LED module makes contact with said reflector.
  - 5. The LED illumination system according to one of claims 1 to 4, wherein a temperature sensor is provided in said LED module.
- 10 6. The LED illumination system according to claim 5, wherein a control part for controlling the power supplied to an LED chip in response to a signal that is received from said temperature sensor is provided.
  - 7. An LED module, comprising:
- a) a substrate;
  - b) a heat conducting layer provided on said substrate and made of an insulating material;
  - c) a conductive layer provided on said heat conducting layer and having a predetermined pattern;
- d) a light emitting diode chip provided in a predetermined position on said conductive layer; and
  - e) a connector part having a module thermally contacting portion for conveying heat from the substrate and the heat conducting layer and a power supply terminal, provided in an end portion of said substrate.

- 8. The LED module according to claim 7, wherein said heat conducting layer is made of diamond, diamond-like carbon or carbon nanotubes.
- 9. The LED module according to claim 7 or 8, wherein a temperature sensor is 5 provided.
  - 10. A socket for an LED module, which is a socket for supporting the connector part of the LED module according to one of claims 7 to 9, comprising: a socket thermally contacting portion for making a surface contact with the module thermally contacting portion of the connector part; and a terminal connected to the power supply terminal of said connector part.
  - 11. The socket for an LED module according to claim 10, wherein a heat releasing part for releasing heat to the surrounding air is provided around the socket.

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